10/8/2014

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| Version 0.0.1 | Amrit Panesar |

1.1 Title Page



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| CIS Capstone | Modular Analogue and Digital Data Logging with Microcontrollers |

# 1.2 Credit Page

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| *Document Purpose:* | Outline the idea, purpose, platform, history, reference, and design intentions with the analogue data logger |
| *Document Version:* | Version 0.0.1 |
| *Working Title:* | Modular Analogue and Digital Data Logging with Microcontrollers |
| Application *Concept:* | Using pre-built microcontrollers and custom software this project will be able to display and log various analogue and digital inputs, such as temperature or position, done in such a way that each device is modular and hot-pluggable. |
| Application *Document Author:* | Amrit Panesar |

# 1.3 Sign-Off

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| *Application* *Design Sign-off* | |
| *CEO:* | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Amrit Panesar |
| *Lead Designer:* | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Amrit Panesar |
| *Lead Programmer:* | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Amrit Panesar |

# 1.4 Pitch

# 1.5 Introduction

Rooms and offices do not always have temperature monitoring systems and it can be frustrating to The environmental data logging device is designed for the user to be able to visually and logically see how temperate the environment around the user is. The key to the visual aspect of the device is the main display’s backlight. The color of the backlight will change depending on how temperate the surrounding averment is. The environmental logging device is an embedded device - software runs directly on the Atmel microcontroller. The desired form-factor is that of a standard thermostat.